

Status of the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (currently amended) A spatial light modulator, comprising:
reflective devices;
a continuous solid and substantially rigid substrate; and
an actuator comprising actuator elements and first and second sets of electrodes,

wherein respective electrodes in the first set of electrodes are coupled to a first portion of respective ones of the actuator elements and are coupled to respective ones of the reflective devices, and

wherein respective electrodes in the second set of electrodes are coupled to a second portion of the respective ones of the actuator elements and are coupled to the continuous solid and substantially rigid substrate.

2. (previously presented) The spatial light modulator of claim 1, wherein the actuator elements and electrodes are configured to move the reflective devices in two directions.

3. (previously presented) The spatial light modulator of claim 1, wherein the actuator elements and electrodes are configured to move the reflective devices in four directions.

4. (previously presented) The spatial light modulator of claim 1, wherein each electrode in the second set of electrodes comprises first and second electrode sections.

5. (previously presented) The spatial light modulator of claim 4, wherein the first and second electrode sections and the first set of electrodes are configured to allow the actuator elements to tilt the reflective devices.

6. (previously presented) The spatial light modulator of claim 1, further comprising:

a first coupling device between the actuator elements and electrodes in the second set of electrodes; and

a second coupling device between electrodes in the first set of electrodes.

7. (original) The spatial light modulator of claim 1, wherein adjacent ones of the actuator elements have different heights.

8. (original) The system of claim 2, wherein the actuator element moves the reflecting device about one-quarter of a wavelength of light in each direction.

9. (cancelled)

10. (original) The spatial light modulator of claim 1, wherein the actuator elements are configured such that the reflective devices form an overall curved shape.

11. (currently amended) The spatial light modulator of claim 1, wherein the actuator elements are formed in varying heights and positions on the continuous solid and substantially rigid substrate, such that varying wavefront patterns are generated by light reflecting therefrom.

12-26 (cancelled)

27. (previously presented) The system of claim 3, wherein the actuator elements move the reflecting device about one-quarter of a wavelength of light in each direction.

28. (cancelled).

29. (new) The system of claim 1, wherein said electrodes cause a material of said actuator elements to expand and contract to move said respective reflective devices along a longitudinal axis of said actuator elements.

30. (new) The system of claim 29, wherein said material comprises one of lead zirconate titanate (PZT), zinc oxide (ZnO), or polyvinylidene fluoride (PVDF) polymer films.